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p. 2236-2237.

DESCRIPTORS: *Gels, *Chromium compounds,
*Hydroxides, Porosity, Adsorption.

The sorption of argon at -195° and water vapor at 20°
was studied on six samples of chrome gel, prepared
under various conditions. By changing the precipitation
conditions, chromium hydroxides of different porosities
can be obtained, including samples with a pore struc-
ture characteristic of molecular sieves of the aluminosilicate type. (Author)

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Office of Technical Services

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(foreign text included). 7 refs. CNRS-XXV 413.
Order from OTS, ETC or CNRS \$2.00 TT-62-26398

Trans. in French of Akademiya Nauk SSSR, Otdelenie
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Other translations in English are available from LC or
SLA mi\$3.60, ph\$9.30 as 61-10675, and from LC or
SLA mi\$3.00, ph\$6.30 as 60-23209.

DESCRIPTORS: *Metals, *Mechanical working, Stabi-
lity.

(Metallurgy, TT, v. 11, no. 6)

TT-62-26398

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- II. CNRS-XXV 413
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European Translation Centre

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ON THE STABILITY OF THE METAL CUTTING
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Order from LC or SLA mi\$3.60, ph\$9.30 61-10675

Trans. of Akademiya Nauk SSSR. Otdeleniye
Tekhnicheskikh Nauk. Izvestiya, 1958, no. 9,
p. 37-52.

Another translation is available from LC or SLA
mi\$3.00, ph\$6.30, as 60-23209, CSIRO Trans-4493
[1960] [34] p.

For abstract see TT, v. 5, no. 3

(Machinery--Manufacturing, TT, v. 5, no. 9)

61-10675

1. Metals--Machining
2. Cutting tools--Mechanical
properties
1. El'yasberg, M. Ye.

Office of Technical Services

El'yasberg, M. Ye.

STABILITY OF THE METAL CUTTING PROCESS (Ob
Ustoychivosti Protsessa Rezaeniya Metallov) tr. by
M. Slade. [1960] [34]p. (foreign text included) 7 refs.
Trans. no. 4493.
Order from LC or SLA ml\$3.00, ph\$6.30 60-23209

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Tekhnicheskikh Nauk. Izvestiya, 1958, no. 9,
p. 37-52.

A theory of self-induced oscillations in machining is
developed which makes use of the mechanisms accom-
panying the deformation of the metal being worked.

(Machinery--Manufacturing, TT, v. 5, no. 3)

60-23209

1. Metals--Machining
2. Cutting tools--Mechanical
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TT-63-24322

El'yasberg, P. E. and Yastrebov, V. D.
DETERMINATION OF UPPER-ATMOSPHERE DENSITY
FROM THE RESULTS OF THE OBSERVATIONS OF
SPUTNIK 3 (Opredelenie Plotnosti Verkhnei Atmosfery
po Rezul'tatam Nablyudenii za Poletom Tret'ego Sovetskogo
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Palmer. Feb 61 [19p] refs RAE Library Trans.
no. 937; AD-258 609.

Order from OTS, SLA or ETC \$1.60 TT-63-24322

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1960,
v. 4, p. 18-30.

Another trans. is available from OTS or SLA \$2.60 as
TT-61-27991, ARGMA Trans-16-61, 21 Jul 61 [23]p.
(Abstract available)

DESCRIPTORS: *Upper atmosphere, Density, Determination,
*Atmospheric sounding, *Satellites (Artificial),
Orbital trajectories, Numerical analysis, (Earth Sciences--
Atmosphere, TT, v. 11, no. 2) (over)

- I. Title: Sputnik-3
- II. Yastrebov, V. D.
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Office of Technical Services

El'yasberg, P. E.
THE DETERMINATION OF THE ORBIT FROM TWO
POSITIONS. [1963] [32]p. 2 refs.
Order from OTS or SLA \$3.60

61-14894

Trans. of Iskusstvennye Sputnik Zemli (USSR) 1962,
v. 13, p. 3-22.

DESCRIPTORS: *Position finding, *Orbital trajectories,
*Space navigation, *Rendezvous guidance, Elliptical
orbit trajectories, Partial differential equations,
Celestial mechanics, Numerical analysis.

The explicit guidance problem of Keplerian mechanics
is discussed and analyzed in detail as to the types of
motion between two positions and the existence and
uniqueness of the motion. This paper is of basic interest
to those interested in satellite rendezvous and intercept
guidance problems. (Author)
(Engineering--Satellite Vehicles, TT, v. 10, no. 3)

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Office of Technical Services

Determination of Upper-Atmosphere Density from
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In CIA Lib
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OTS 21-6-1971

NASA TT F-47

National Aeronautics and Space Administration.

DEPENDENCE OF SECULAR VARIATIONS OF ORBIT ELEMENTS ON THE AIR RESISTANCE. P. E.

El'yasberg. November 1960. 10p. OTS price, \$0.50. (NASA TECHNICAL TRANSLATION F-47.

Translation from *Iskusstvennyy Sputnik Zemli*, no. 3, 1959, p. 54-60 (USSR))

Presented is an extension of the idea, proposed by I. M. Vats'yanov, of expanding the secular variations of the orbit elements in Bessel functions of imaginary argument. This results in simple and illustrative formulas which can be used to solve many problems, such as determination of the dependence of the secular variations of the orbit elements on the values of the elements themselves, estimation of the accuracy of determination of the air density from the measured secular variations of the orbit elements, and so forth.

Copies obtainable from NASA, Washington

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- II. NASA TT F-47
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(Initial NASA distribution:
6, Astronomy; 7, Astro-
physics; 16, Cosmochemis-
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